

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"6536052".pn.	USPAT	OR	OFF	2006/03/14 11:17
S2	6	"4890877".pn.",5571352".pn.", 5882322".pn.",5896680".pn.", 6269504".pn.",6306483".pn.	USPAT	OR	OFF	2006/03/10 17:19
S3	4	428/180,174.ccls. and (non\$1woven or nonwoven) and (energy with (absorb\$3 or absorption))	USPAT	OR	OFF	2006/03/10 17:21
S4	12	428/180,174.ccls. and (non\$1woven or nonwoven) and ((energy or shock) with (absorb\$3 or absorption))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 17:28
S5	15	2/411.ccls. and (nonwoven or non\$1woven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 17:26
S6	10	("3877076"   "4724549"   "4890877"   "5068922"   "5364686"   "5435619"   "5731062"   "5734994"   "5896680"   "6012178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/10 17:27
S7	8	428/175.ccls. and (non\$1woven or nonwoven) and ((energy or shock) with (absorb\$3 or absorption))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 15:39
S8	20	428/178,182.ccls. and (non\$1woven or nonwoven) and ((energy or shock) with (absorb\$3 or absorption))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 17:32
S9	198	kitamura.in. and absorber	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 17:33
S10	2	S9 and (non\$1woven or nonwoven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 17:36
S11	14	tao.in. and xiaoming.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 17:38

## EAST Search History

S12	2	"4890877".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/10 17:38
S13	12	("0997994"   "3231454"   "4267223"   "4409274"   "4495237"   "4507348"   "4588631"   "4631221"   "4783114"   "4786100").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/10 17:38
S14	40	("4890877").URPN.	USPAT	OR	OFF	2006/03/10 17:40
S15	40	("4890877").URPN.	USPAT	OR	OFF	2006/03/10 17:41
S16	36	("20020017805"   "20040003974"   "2604349"   "3495474"   "3506295"   "3563446"   "3930665"   "3964208"   "4081123"   "4087040"   "4890877"   "4984384"   "5067367"   "5098124"   "5348798"   "5435619"   "5700545"   "5732801"   "5749193"   "5830548"   "5833304"   "5836641"   "5857734"   "5915876"   "6012764"   "6017084"   "6199942"   "6247745"   "6443513"   "6543838"   "6547280"   "6550850"   "6601886").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/10 17:41
S17	1	"5972477".pn.	USPAT	OR	OFF	2006/03/13 12:16
S18	12	("4128684"   "4212692"   "4252590"   "4472472"   "4584228"   "4631221"   "4690847"   "4890877"   "5158821"   "5364686"   "5731062"   "Re31345"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 12:16
S19	6	("3219514"   "4118261"   "4631221"   "5077116"   "5132166").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 12:18
S20	40	("1784511"   "2173797"   "2481046"   "2517069"   "2689988"   "2809908"   "2858247"   "3011602"   "3013641"   "3018924"   "3086899"   "3193434"   "3219514"   "3507634"   "3525663"   "3558394"   "3589972"   "3834487"   "3865679"   "3876492"   "4118261"   "4389447"   "4495237").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 12:19
S21	25	("5364686").URPN.	USPAT	OR	OFF	2006/03/13 12:25
S22	2	"4631221".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 12:39

## EAST Search History

S23	2	"4890877".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 12:40
S24	12	("0997994"   "3231454"   "4267223"   "4409274"   "4495237"   "4507348"   "4588631"   "4631221"   "4783114"   "4786100").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 12:40
S25	40	("4890877").URPN.	USPAT	OR	OFF	2006/03/13 12:40
S26	36	("20020017805"   "20040003974"   "2604349"   "3495474"   "3506295"   "3563446"   "3930665"   "3964208"   "4081123"   "4087040"   "4890877"   "4984384"   "5067367"   "5098124"   "5348798"   "5435619"   "5700545"   "5732801"   "5749193"   "5830548"   "5833304"   "5836641"   "5857734"   "5915876"   "6012764"   "6017084"   "6199942"   "6247745"   "6443513"   "6543838"   "6547280"   "6550850"   "6601886").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 12:45
S27	15	2/411.ccls. and (non\$1woven\$1 or nonwoven\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 12:46
S28	965	428/156,166,172,174,175,180,182, 178.ccls. and (non\$1woven\$1 or nonwoven\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 12:47
S29	482	S28 and absorb\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 12:47
S30	85	S28 and ((shock or impact or energy) with (absorb\$3 or absorption))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 13:13
S31	319	428/297.4,299.1,299.4,299.7.ccls. and (nonwoven\$1 or non\$1woven\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 13:36

## EAST Search History

S32	70	disselbeck.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 15:30
S33	6	S32 and (nonwoven or unwoven or non\$1woven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 17:00
S34	2	"6007898".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 15:31
S35	23	("2029370"   "2627644"   "3219514"   "3691004"   "4104430"   "4128684"   "4212692"   "4252590"   "4584228"   "4631221"   "4673616"   "4822663"   "4890877"   "5158821"   "5296289"   "5364686"   "5447776"   "5523141"   "Re31345").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 15:31
S36	1	("4338369").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 15:34
S37	17	("4673616").URPN.	USPAT	OR	OFF	2006/03/13 15:34
S38	23	("2029370"   "2627644"   "3219514"   "3691004"   "4104430"   "4128684"   "4212692"   "4252590"   "4584228"   "4631221"   "4673616"   "4822663"   "4890877"   "5158821"   "5296289"   "5364686"   "5447776"   "5523141"   "Re31345").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 15:37
S39	1	("6007898").URPN.	USPAT	OR	OFF	2006/03/13 15:37
S40	41	428/175.ccls. and (non\$1woven or nonwoven) and thermoplastic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 15:39
S41	170	428/174,175.ccls. and (non\$1woven or nonwoven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 16:28
S42	1543	442/59,103,104,105.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 16:30

## EAST Search History

S43	559	S42 and (non\$1woven or nonwoven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 16:38
S44	2	"4673616".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 16:38
S45	1	("4338369").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 16:38
S46	17	("4673616").URPN.	USPAT	OR	OFF	2006/03/13 16:42
S47	5143	(three adj dimensional\$3) with network\$1 and fiber\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 16:43
S48	967	(three adj dimensional\$3) with network\$1 with (fiber\$1 or textile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 16:46
S49	167	kim.in. and dai.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 16:47
S50	2	S49 and staple	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 16:46
S51	13	S49 and (nonwoven or non\$1woven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 16:51
S52	2	"5364686".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 16:51
S53	6	("3219514"   "4118261"   "4631221"   "5077116"   "5132166").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 16:51
S54	25	("5364686").URPN.	USPAT	OR	OFF	2006/03/13 16:52

## EAST Search History

S55	5	("4252590"   "4631221"   "5364686"   "5599420"   "5858515").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 16:52
S56	25	("5364686").URPN.	USPAT	OR	OFF	2006/03/13 16:59
S57	70	disselbeck.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 17:00
S58	8	S57 and (nonwoven\$1 or unwoven\$1 or non\$1woven\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 17:24
S59	6026	tao.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 17:26
S60	428	S59 and absorb\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 17:24
S61	101	S59 and (absorb\$3 or absorption) and (fiber\$1 or textile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 17:25
S62	14	tao.in. and xiaoming.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/13 17:26
S63	10	("3877076"   "4724549"   "4890877"   "5068922"   "5364686"   "5435619"   "5731062"   "5734994"   "5896680"   "6012178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 17:28
S64	6	disselbeck.in. and (non\$1woven or nonwoven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 11:19
S65	1544	gebauer.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 11:19

## EAST Search History

S66	23	S65 and elke.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 11:20
S67	7	S66 and (nonwoven or non\$1woven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 11:20
S68	6	lachenmeir.in. and (nonwoven or non\$1woven\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 11:33
S69	189	442/103,104,105.ccls. and (nonwoven or non\$1woven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 11:39
S70	2916	(energy with absorb\$3) and (nonwoven or non\$1woven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 11:39
S71	185	S70 and (thermoplastic with matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 11:44
S72	357	(nonwoven or non\$1woven) with (thermoplastic with matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 11:57
S73	2	"4890877".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 11:57
S74	12	("0997994"   "3231454"   "4267223"   "4409274"   "4495237"   "4507348"   "4588631"   "4631221"   "4783114"   "4786100").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/14 11:57
S75	40	("4890877").URPN.	USPAT	OR	OFF	2006/03/14 11:58

## EAST Search History

S76	36	("20020017805"   "20040003974"   "2604349"   "3495474"   "3506295"   "3563446"   "3930665"   "3964208"   "4081123"   "4087040"   "4890877"   "4984384"   "5067367"   "5098124"   "5348798"   "5435619"   "5700545"   "5732801"   "5749193"   "5830548"   "5833304"   "5836641"   "5857734"   "5915876"   "6012764"   "6017084"   "6199942"   "6247745"   "6443513"   "6543838"   "6547280"   "6550850"   "6601886").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/14 12:04
S77	363	(energy with (absorption or absorb\$3)) and (nonwoven or non\$1woven) and (collapse\$3 or collapsible)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 12:11
S78	1251	(energy adj (absorption or absorb\$3)) and (nonwoven or non\$1woven)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 12:12
S79	15	S78 and "296"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 12:13
S80	429	S78 and "428"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 12:47
S81	159	kim.in. and fiber\$1 and sheath	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 12:49
S82	168	kim.in. and dai.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 13:02
S83	1	S82 and sheath	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 12:49



## EAST Search History

S84	2	kim.in. and dai.in. and staple	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 14:36
S85	2	"6403196".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 14:43
S86	11301	random with orientation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 14:43
S87	33	random with orientation with fiber\$1 with staple	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 14:58
S88	2	"5972477".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 15:05
S89	143	staple with fiber\$1 and anisotropy	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 15:06
S90	97	staple with fiber\$1 and anisotropy and (random\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 15:14
S91	4345	staple with fiber\$1 and (nonwoven or non\$1woven) and (random\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 15:15
S92	60	staple with fiber\$1 and (nonwoven or non\$1woven) and (random\$2) and anisotropy	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 15:17
S93	115	staple with fiber\$1 and (nonwoven or non\$1woven) and (random\$2) and ((impact or energy or shock) with absorb\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/14 15:18